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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,353	06/26/2001	Glen C. Chang	5212600010 (Digco 108)	1167
32641 7590 05/01/2007 DIGEO, INC C/O STOEL RIVES LLP 201 SOUTH MAIN STREET, SUITE 1100 ONE UTAH CENTER SALT LAKE CITY, UT 84111			EXAMINER VU, NGOC K	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 09/893,353	<b>Applicant(s)</b> CHANG, GLEN C.	
	<b>Examiner</b> Ngoc K. Vu	<b>Art Unit</b> 2623	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 February 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 5, 7, 9-15, 21, 23-26, 29-31, 35, 39, 41, 43, 49 and 51-54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 5, 7, 9-15, 21, 23-26, 29-31, 35, 39, 41, 43, 49 and 51-54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Response to Arguments***

1. Applicant's arguments filed 2/20/07 and 7/28/06 have been fully considered but they are not persuasive.

Applicant argues that Ellis of the record teach organizing information into room categories which is unrelated to devices in the various rooms. This argument is not persuasive.

Ellis discloses a program guide system that allows a user to adjust program guide settings associated with different locations within a household. See 0008. For example, a user may adjust favorite channel settings on a program guide operating in a living room and these settings will be effective on the program guide operating in a master bedroom and may therefore be used by that program guide. As another example, parents may establish parental controls to lock various programs and services from a master location and the system will apply these parental controls to various locations within the household. See 011, 0012. It is noted that the setting features associated with a particular location or room within the household using program guide system. In other words, these settings are related to controlling user's viewing, e.g., parent controlling children's viewing. Furthermore, Ellis's system presents information, e.g., certain channels indicated as favorite channels or restricted channels, associated with a particular location or room as shown in figures 18a, 18b, and 24. From this view, the information is associated with a specific location or room within the household, and the information is not related to controlling devices in the rooms. Thus, Ellis teaches managing or organizing information associated with different locations within a household.

Applicant's arguments with further respect to claims 1, 5, 7, 9-14, and 41 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 101***

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 13 and 30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows.

Claims 13 and 30 define a computer readable medium embodying functional descriptive material. However, the claimed software or computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized, and is thus non-statutory for that reason. Any amendment to the claim should be commensurate with its corresponding disclosure.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 7, 9, 10, 13, 14, and 41 are rejected under 35 U.S.C. 102(e) as being anticipated by Hasha et al. (US 6,734,892 B2).

Regarding claim 1, Hasha teaches a method of organizing information in an interactive system, the method comprising: associating sets of information (spatial service

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objects/components) with respective room identifiers (spaces) corresponding to respective physical rooms in a home, the physical rooms being locations with which the sets of information are related, the information being unrelated to controlling devices within the respective physical rooms (the spatial service includes software component associated with the space) (see col. 4, lines 40-47; col. 5, lines 45-52); displaying an interactive menu including one or more of the room identifiers (see figure 6); in response to a selection of a particular room identifier (e.g., swimming pool), displaying one or more representations of associated sets of information (see figure 2); allowing a user to select one of the displayed representations (e.g., music album – figure 2); and in response to the representation being selected, displaying the set of information associated with the selected representation (see figure 3).

Regarding claim 7, Hasha teaches customizing the selected set of information (e.g., user can set tags to the selected music – see figures 3-4).

Regarding claim 9, Hasha teaches providing movie with a representation associated with a set of information (e.g., options in 102, 103) (see col. 5, lines 5-13).

Regarding claim 10, Hasha teaches providing text displayed with a representation associated with a set of information (see figure 5).

Regarding claim 13, Hasha teaches computer readable medium (within UCP) having stored instructions (software) to associate information (spatial service object/component) with a particular room identifier (space), the particular room identifier corresponding to a physical rooms in a home with which the information is related, the information being unrelated to controlling a device within the corresponding physical rooms (the spatial service includes software component associated with the space) (see col. 4, lines 40-47; col. 5, lines 45-52); providing an interactive menu displaying a plurality of room identifiers including the particular room identifiers (see figure 6); in response to a selection of the particular room identifier (e.g.,

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swimming pool), displaying an option to select the information associated with the particular room identifier(see figure 2); and in response to the information being selected, displaying the information (see figure 3).

Regarding claim 14, Hasha teaches an apparatus for organizing information in an interactive television system, the apparatus comprising: means for associating information (spatial service object/component) with a particular room identifier (space), the particular room identifier corresponding to a physical rooms in a home with which the information is related, the information being unrelated to controlling a device within the corresponding physical rooms (the spatial service includes software component associated with the space) (see col. 4, lines 40-47; col. 5, lines 45-52); ,means for providing an interactive menu displaying a plurality of room identifiers including the particular room identifiers (see figure 6); means for responding to a selection of the particular room identifier (e.g., swimming pool) and displaying an option to select the information associated with the particular room identifier(see figure 2); communicatively coupled to associating means, means for displaying the information in response to the information being selected (see figure 3).

Regarding claim 41, Hasha teaches an apparatus for enabling a user interface in an interactive system, the apparatus comprising: a remote control device capable to transmit command signals (col. 10, lines 24-27); a controller (within UCP device) capable to display information in response to a selection of the information (col. 3, lines 50-57; col. 4, lines 40-45); and a user interface engine executable by the controller in response to command signals from the remote control device to permit access to the information associated with a particular room identifier (e.g., swimming pool) (col. 3, lines 53-57; figure 2), the particular room identifier corresponding to a physical room in a home with which the information is related, the information being unrelated to controlling a device within the corresponding physical room, the

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information unrelated to any controlling computer device in the home (providing music album information – see col. 4, lines 40-47; col. 5, lines 45-52; figures 2-3).

6. Claims 15, 19, 21, 23-26, 29-31, 35, 39, 43, 49 and 51-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Ellis et al. (US 20050251827 A1).

Regarding claim 15, Ellis discloses a method of organizing information in an interactive television system, the method comprising:

associating information (setting feature, e.g., certain channels to be blocked or hidden – see figures 18a-18b) with a particular room identifier (i.e., to a particular location such as parent's room, children's room, or guest's room...etc), the particular room identifier corresponding to a physical room in a home with which the information is related (i.e., parent room, children room, kitchen, guest room, living room...etc – see 0011, 0012), the information (e.g., channels) being unrelated to controlling a device within the corresponding physical room (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b).

providing an interactive menu displaying a plurality of room identifiers including the particular room identifiers (a plurality of physical rooms within the household after selecting selection location 206 from menu 200 in figure 18a – see figures 13, 18a and 0098-0100);

in response to a selection of a particular room identifier (i.e., parent's room, children's room, guest's room...etc), displaying an option to select the information associated with the particular room identifier (the user can choose a specific location or room from the select location option 206 to apply parental control feature, i.e., blocking or hiding channels, to that specific location or room – see 0098-0099 and figure 18a-b); and

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in response to the information (e.g., selection option 206) being selected, displaying the information (e.g., a specific location or room) using the interactive television system (see 0098).

Regarding claim 19, Ellis discloses requiring verification input (i.e., enter password) if the particular room identifier is a restricted room identifier (for example, accessing parental control in a master room – see 0095-0096, 0012 and figure 15).

Regarding claim 21, Ellis discloses customizing a feature in one of the functions (the parents' bedroom may be used as a master location to adjust user settings for the program guides in the children's room or other room – see 0072).

Regarding claim 23, Ellis shows that additional video is displayed with a representation of the feature (pop-up program listing display 256 – see figure 20).

Regarding claim 24, Ellis shows that additional text is displayed with a representation of the feature (for example, "Holiday Entertaining" displayed with pop-up program listing display 256 as shown in figure 20).

Regarding claim 25, Ellis teaches designating the "parent room" as a master location or restricted-access location in the house (see 0093).

Regarding claim 26, Ellis discloses activating at least one feature associated with the personal room function (see 0072, 0089).

Regarding claim 29, Ellis discloses a method of organizing information in an interactive television system (primary user television equipment – see figure 3), the method comprising:

providing an interactive menu displaying a plurality of room identifiers (i.e., parent's room, children's room, or guest's room...etc), the room identifiers corresponding to a physical room in a home (i.e., parent room, children room, kitchen, guest room, living room...etc - see figure 13);



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in response to a selection of a room identifier (i.e., parent's room, children's room, guest's room...etc), displaying a menu with a plurality of options, each option associated with information unrelated to controlling a device within the corresponding physical room, the information being unrelated to the physical room associated with the selected room identifier (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b).

selecting one of the options in the menu (channel block or hide – see 0098-0099);

if the selected option corresponds to a personalized room identifier (for example, accessing to parental control features corresponding to a children's room or an assigned room), then requiring a verification input (entering password), and if the verification input is valid, then displaying the information corresponding to the selected option (i.e., blocking or hiding the channels - 0095-0096, 0012 and figures 15 and 17);

if the selection option does not correspond to a personalized room identifier (i.e., all rooms), then activating the selected function (applying blocking or hiding the channels feature – see 0098-0100 and figure 18a-18b); and

if the displayed information is customizable, then permitting input of a name for the displayed information (it is noted that the user can access parental control screen 190 of figure 16 and may use remote control 54 to navigate between options such as set channels option, set maximum rating, and monitor viewing. If the user selects set channels option, the program guide provides the user with an opportunity to set which channels are to be blocked or hidden – see 0096-0099).

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Regarding claim 30, Ellis discloses a computer readable medium having stored thereon instructions (it is noted that set top box contains a processor to handle tasks or execute instructions/software – see 0064) to:

provide an interactive menu displaying a plurality of room identifiers (i.e., parent's room, children's room, or guest's room...etc), the room identifiers corresponding to a physical room in a home (i.e., parent room, children room, kitchen, guest room, living room...etc - see figure 13);

in response to a selection of a room identifier (i.e., parent's room, children's room, guest's room...etc), displaying a menu with a plurality of options, each option associated with information unrelated to controlling a device within the corresponding physical room, the information being unrelated to the physical room associated with the selected room identifier (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b).

select one of options in the menu (channel block or hide – see 0098-0099);

if the selected option corresponds to a personalized room identifier (for example, accessing to parental control features corresponding to a children's room or an assigned room), then requiring a verification input (entering password), and if the verification input is valid, then displaying the information corresponding to the selected option (i.e., blocking or hiding the channels - 0095-0096, 0012 and figures 15 and 17);

if the selection option does not correspond to a personalized room identifier (i.e., all rooms), then activating the selected function (applying blocking or hiding the channels feature – see 0098-0100 and figure 18a-18b); and

if the displayed information is customizable, then permitting input of a name for the displayed information (it is noted that the user can access parental control screen 190 of figure

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16 and may use remote control 54 to navigate between options such as set channels option, set maximum rating, and monitor viewing. If the user selects set channels option, the program guide provides the user with an opportunity to set which channels are to be blocked or hidden – see 0096-0099).

Regarding claim 31, Ellis discloses an apparatus for organizing information in an interactive television system, the apparatus comprising:

means for providing an interactive menu displaying a plurality of room identifiers (i.e., parent's room, children's room, or guest's room...etc), the room identifiers corresponding to a physical room in a home (i.e., parent room, children room, kitchen, guest room, living room...etc - see figure 13);

means for responding to a selection of a room identifier (i.e., parent's room, children's room, guest's room...etc), displaying a menu with a plurality of options, each option associated with information unrelated to controlling a device within the corresponding physical room, the information being related to the physical room associated with the selected room identifier (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b).

communicatively coupled to the means for displaying the settings menu, means for selecting one of the options in the menu (channel block or hide – see 0098-0099);

communicatively coupled to the means for selecting one of the options, means for requiring a verification input (entering password) if the selected option corresponds to a personalized room identifier (for example, accessing to parental control features corresponding to a children's room or an assigned room) and for activating the selected function if the

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verification input is valid (i.e., blocking or hiding the channels - 0095-0096, 0012 and figures 15 and 17);

communicatively coupled to the means for selecting one of the options, means for displaying the information associated with the selected option if the selected option does not corresponding to a personalized room identifier (e.g., applying blocking or hiding the channels feature to all rooms) (see 0098-0100 and figure 18a-18b); and

means for permitting input of a name for the displayed information if the displayed information is customizable (it is noted that the user can access parental control screen 190 of figure 16 and may use remote control 54 to navigate between options such as set channels option, set maximum rating, and monitor viewing. If the user selects set channels option, the program guide provides the user with an opportunity to set which channels are to be blocked or hidden – see 0096-0099).

Regarding claim 35, Ellis discloses an apparatus for enabling a user interface in an interactive television system, the apparatus comprising:

a set top box (within primary user television equipment – see figures 3 & 6) communicatively coupled to a display device (92 – see figure 6) and capable to transmit television signals to a display devices, the set top box including a user interface engine capable to display information (setting feature) associated with a particular room identifier (i.e., parent's room, children's room, guest's room...etc), the particular room identifier corresponding to a physical room in a home (i.e., parent room, children room, kitchen, guest room, living room...etc - see 0010-0015) where the information (setting feature) is normally available, the information being unrelated to controlling a device within the corresponding physical room (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b), the user

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interface engine further cable to display an interactive menu having a plurality of room identifiers (as shown in figure 13) including the particular room identifier, and in response to a selection of the particular room identifiers, display an option to select the information (it is noted that a parent/user may be presented with select location screen including the plurality of locations corresponding to the physical rooms as illustrated in figure 13 after selecting selection location option 206 from menu 200 in figure 18a – see figures 13, 18a and 0098-0100);

the set top box further including a controller (processor) capable to execute the user interface engine and to display the information in response to the information being selected (the parent in the primary user television equipment controls settings he program guide for a particular location or room in the house. See 0072, 0089, 0095-0100).

Regarding claim 39, Ellis discloses requiring verification input (i.e., enter password) if the particular room identifier is a restricted room identifier (for example, accessing parental control in a master room – see 0095-0096, 0012 and figure 15).

Regarding claim 43, Ellis discloses an apparatus for providing to a user of an interactive television system, a home style user interface that is organized according to a plurality of rooms in a home (see figures 1, 3 & 6), the apparatus comprising:

a set top box (48, 90 – figures 1, 6) including a storage capable to store information (setting features) normally related to a physical room in the home, the information being associated with a room identifier corresponding to the physical room (e.g., parental control options), the information being unrelated to the physical room associated with the selected room identifier (parental control feature indicate some channels to be blocked or hidden associated with a specific location or room in the household using the program guide) (see 0011, 0012 and figures 18a-18b), the set top box further capable to receive and interpret a command signal (i.e., receiving a command signal for parental control selection), the television screen layout including

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an interactive menu (see figures 18a-18b) displaying a plurality of room identifiers (as shown in figure 13) and associated features (see figures 18a-18b), the set top box capable to transmit the television screen layout (since the set top box of primary user television equipment may be assigned as a master device, the set top box of primary user television equipment controls the program guide settings for other rooms), the set top box capable of executing the feature based on a received and interpreted command signal indicative of a selected feature, the executed feature occurring within the interactive television system rather than the corresponding room (it is noted that the set top box of primary user television equipment may be set as the master device. This allows the parent to control settings or the program guide functions for a particular location or room in the house. Accordingly, the executed function occurs within the primary user television equipment rather than the corresponding physical room - see 0012, 0072, 0089, 0095-0100);

a television (52, 92 – see figures 3, 6) including a television screen, the television communicatively coupled to the set top box and capable to receive the television screen layout from the set top box and capable to display the television screen layout on the television screen (see figures 3, 6, 0091); and

a user input device (remote control 54) communicatively coupled to the set top box and capable to detect a user input and capable to convert the user input into the command signal and transmit the command signal to the set top box (see figure 1, 0066).

Regarding claim 49, Ellis discloses that the set top box is further capable to update the information about an executable application based upon the command signal received from the user input device (as interpreted above, the set top box of primary user television equipment may be assigned as a master device, the set top box of primary user television equipment controls the program guide settings for other rooms. For example, the user toggles between the

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blocking and not blocking the channel by pressing the enter key on remote control, the set top box is capable to update the information about an executable application based upon the command signal received from the remote control - see 0089, 0097).

Regarding claim 51, Ellis discloses that the set top box is further capable to update or change the room identifier associated with the room (see 0092).

Regarding claim 52, Ellis discloses that the set top box storage (within the set top box) is further capable to store indicia of whether at least one of the plurality of room identifiers is password protected (see 0096).

Regarding claim 53, Ellis discloses that the set top box storage (within the set top box) is further capable to store a password associated with one of the plurality of room identifiers (see 0096).

Regarding claim 54, Ellis discloses that the set top box is further capable to provide user access to each of the plurality of features associated with one of the plurality of room identifiers that is password protected, if the interpretation of the command signal received from the user input device results in a determination that the user has entered the password associated with the one of the plurality of the room identifiers (see figure 17 and 0096).

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 5, 11, 12, 15, 19, 21, and 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasha et al. (US 6,734,897 B2) in view of McGill et al. (US 6,678,685 B2).

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Regarding claims 5 and 11, Hasha does not explicitly requiring verification input if the particular room identifier is a restricted room identifier and creating a personal room function associated with a restricted-access room identifier in the home. However, McGill teaches application for organizing integrated household activities so that it requires user verification input such as login to access to a particular user account. The application uses the personal data within the application to make available information/service that is relevant to user's specific needs such as calendar, meal schedule, shopping, etc (see col. 2, lines 42-47; col. 5, lines 9-13). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Hasha by requiring verification input to access to a particular user account and making information/service available associated with the particular user account as taught by McGill in order to secure user account in the system and to employ information/service provided to that account to effectively manage family and household activities of the user.

Regarding claim 12, Hasha as modified by McGill further teaches activating at least one feature associated with the application (see McGill col. 5, lines 13-18).

### ***Conclusion***

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,



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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc K. Vu whose telephone number is 571-272-7306. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



NGOC K. VU  
PRIMARY EXAMINER  
Art Unit 2623

April 24, 2007